

Summary of selected water-quality data from ground-water samples collected from February 1995 through December 2013 as a part of the *Equus* Beds Ground-Water Recharge Project.

[mg/L, milligrams per liter; DWA, drinking water advisory; SDWR, secondary drinking water regulation; <, less than; MCL, maximum contaminant level; µg/L, micrograms per liter; cols/100 mL, colonies per 100 milliliters; MCLG, maximum contaminant level goal]

Deep Monitoring Diversion Well Site near Halstead, KS (EB-145-P-05 #380028097311002)									
Compound or fecal indicator bacteria	Water-quality criteria	Number of Samples	Minimum	Maximum	Mean	Median	Percentage of Samples Detected	Percentage of Samples Exceeding Criteria	Percentage of Replicate Samples Exceeding Criteria
Sodium, dissolved (mg/L)	20 mg/L (DWA) ^a	70	48.7	79.4	61.6	60.8	100.0	100.0	100.0
Sulfate, dissolved (mg/L)	250 mg/L (SDWR) ^a	70	5.0	70.0	38.2	34.5	97.1	0.0	0.0
Chloride, dissolved (mg/L)	250 mg/L (SDWR) ^a	70	14.0	134.0	48.4	39.5	100.0	0.0	0.0
Nitrite plus nitrate as nitrogen, dissolved (mg/L)	10 mg/L (MCL) ^a	70	0.0	0.5	0.029*	*0.012	17.1	0.0	0.0
Arsenic, dissolved (µg/L)	10 µg/L (MCL) ^a	39	0.0	48.9	27.1	26.1	100.0	94.9	0.0
Iron, dissolved (µg/L)	300 ug/L (SDWR) ^a	70	10.0	750.0	309.3	277.0	98.6	45.7	25.0
Manganese, dissolved (µg/L)	50 µg/L (SDWR) ^a	70	308.0	995.0	552.5	547.5	100.0	100.0	100.0
Total coliform bacteria (cols/100 mL)	0 cols/100 mL (MCLG) ^a	65	0.5	56.0	1.684*	*0.022	13.8	13.8	0.0
Fecal coliform bacteria ^c (cols/100 mL)	200 cols/100mL (MCLG) ^d	47	0.5	5.0	0.7	0.5	2.1	0.0	0.0
	2,000 cols/100mL (MCLG) ^d	21	0.5	29.0	2.3	0.5	9.5	0.0	0.0
<i>Escherichia coli</i> ^e (cols/100 mL)	262 cols/100mL (MCLG) ^f	2	0.5	13.0	6.8	6.8	50.0	0.0	0.0
	2,358 cols/100mL (MCLG) ^f	1	0.5	0.5	0.5	0.5	0.0	0.0	0.0
Atrazine herbicide	3 µg/L as an annual average ^a (MCL)	38	0.0	0.2	0.1	0.1	73.7	0.0	0.0
Triazine herbicide screen, dissolved (µg/L as Atrazine)	3 µg/L as an annual average ^a (MCL)	69	0.1	0.3	0.1	0.1	27.5	0.0	0.0
Alachlor (µg/L)	2 µg/L (MCL) ^a	37	0.0	0.0	0.0	0.0	0.0	0.0	0.0

^a U.S. Environmental Protection Agency (2006)

^b Value is estimated by using a log-probability regression to predict the values of data below the detection limit.

^c For fecal coliform bacteria, the primary contact recreation surface-water criterion of 200 cols/100mL was used from April 1 - October 31 (when most water-contact recreation occurs); from November 1 - March 31, the criterion of 2,358 cols/100mL was used.

^d Kansas Department of Health and Environment (2001)

^e For *Escherichia coli*, the primary contact recreation surface-water quality criterion of 262 cols/100mL was used from April 1 - October 31 for Class B (public access) stream segments; from November 1 - March 31, the criterion of 2,358 cols/100mL was used.

^f Kansas Department of Health and Environment (2004)